UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,992	07/05/2001	Sam Shiaw-Shiang Jiang	ASTP0013USA	1171

7590   04/21/2005

NAIPO (North America International Patent Office)
P.O. Box 506
Merrifield, VA 22116

EXAMINER
JACKSON, JENISE E

ART UNIT	PAPER NUMBER
2131	

DATE MAILED: 04/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/681,992	JIANG ET AL.
		Examiner	Art Unit	
		Jenise E. Jackson	2131	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____ .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-7* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-7* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____ .

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Cao(6,876,639).

3.   As per claim 1, Cao discloses an interleaved local suspend and reset method for a

wireless communications system(see col. 9, lines 15-45), the wireless communications system

including a first station in wireless communications with a second station along at least one

channel(see col. 4, lines 6-23), the first station initiating a local suspend function for the

channel(see col. 4, lines 23-30) to perform a ciphering configuration change(see col. 6, lines 25-

51), a suspend point determined by a first sequence number (SN); prior to a resume command to

terminate the local suspend function, initiating a reset procedure for the channel(see col. 4, lines

39-56), the reset procedure causing a next protocol data unit to be transmitted have an SN equal

to default value(see col. 9, lines 15-45); in response to the reset procedure, setting the first SN of

the suspend point equal to a default value; and awaiting the resume command for the channel to

terminate the local suspend function(see col. 4, lines 51-64, col. 9, lines 15-45).

4.   As per claim 2, Cao discloses wherein setting the first SN of the suspend point equal to

the default value causes the first station to thereafter immediately halt transmission of layer 2

(PDUs) to the second station along the channel while the local suspend function for the channel

is active(see col. 8, lines 39-67).

5.   As per claim 3, Cao discloses wherein the suspend point comprises a hyper-frame

number (HFN) associated with the SN of the suspend point, and in response to the reset

procedure, the HFN is set equal to a transmitting HFN of the first station(see col. 9, lines 15-45).

6.   As per claim 4, Cao discloses wherein a prior ciphering configuration for the channel is

used before the resume command, and a new ciphering configuration is used for the channel after

the resume command(see col. 6, lines 25-51).

7.   As per claim 5, Cao discloses an interleaved local suspend and reset method for a

wireless communications system(see col. 9, lines 15-45), the wireless communications system

comprising a first station in wireless communications with a second station along at least one

channel(see col. 4, lines 6-23), to perform a ciphering configuration change(see col. 6, lines 25-

51), the first station initiating a local suspend function for the channel a suspend point

determined by a first sequence number (SN) and a first hyper-frame number (HFN) to form a

first HFN/SN pair(see col. 4, lines 23-56); prior to a resume command to terminate the local

suspend function, initiating a reset procedure for the channel, the reset procedure causing a next

layer 2 protocol data unit(PDU) to be transmitted have an associated HFN/SN pair having an

incremented HFN value(see col. 4, lines 39-56); after the reset procedure, and prior to

terminating the local suspend function, the first station transmitting along the channel to the

second station no layer 2 (PDUs) having associated HFN/SN pairs that are sequentially after the

first HFN/SN pair; and awaiting the resume command for the channel to terminate the local

suspend function(see col. 9, lines 15-45).

8.   As per claim 6, Cao discloses wherein a prior ciphering configuration for the channel is

used before the resume command, and a new ciphering configuration is used for the channel after

the resume command(see col. 6, lines 25-51).

9.   As per claim 7, Cao discloses wherein after the reset procedure, and prior to terminating

the local suspend function, the first station transmits along the channel to the second station layer

2 PDUs having associated HFN/SN pairs that are sequentially before the first HFN/SN pair(see

col. 9, lines 19-45).

Response to Amendment

10.   In regards to Applicant's remarks as claims being anticipated by Harsch. The

Applicant's remarks were persuasive, and the art has been changed to Cao. Therefore,

Applicant's remarks as applied to Harsch are moot.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791.

The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 15, 2005

4/17/05

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